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HIDS 505 Federated Data Access - Assignment 6

10. Upload the query script and query results

Query Script used:
1. Load the extension in my local database (postgres_fdw is included in Postgres contrib, and you do need CREATE privileges on the local database):
2. Create a foreign server:
3. Set up a user mapping to authenticate:
4. Run CREATE FOREIGN TABLE, which is pretty similar to CREATE TABLE in that you have to define column names, data types, constraints etc.

'adam_fdw'
– creating extension for foreign server –
CREATE EXTENSION IF NOT EXISTS postgres_fdw;
– using foreign data wrapper and adam's IP address/port, database name and password to access aggregate server –
CREATE SERVER adam_fdw FOREIGN DATA WRAPPER postgres_fdw OPTIONS (host '35.185.93.26', port '5432', dbname 'postgres');
CREATE USER MAPPING FOR postgres SERVER adam_fdw OPTIONS (user 'postgres', password 'hids505adam');
GRANT USAGE ON FOREIGN SERVER adam_fdw to postgres;
IMPORT FOREIGN SCHEMA public LIMIT TO (patient) FROM SERVER adam_fdw INTO public;
ALTER FORGEIN TABLE patient RENAME to patient_adam;

Same query used for other classmate's servers (can be altered for each database/server):
'ansel_fdw'
CREATE EXTENSION IF NOT EXISTS postgres_ansel;
CREATE SERVER ansel_fdw FOREIGN DATA WRAPPER postgres_ansel OPTIONS (host '34.23.236.161', port '5432', dbname 'postgres');
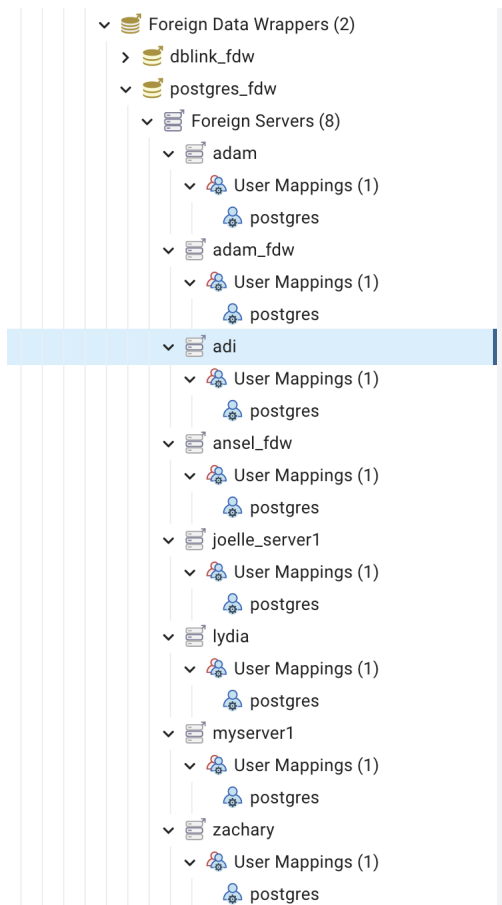CREATE USER MAPPING FOR postgres SERVER ansel_fdw OPTIONS (user 'postgres', password 'qwerty');
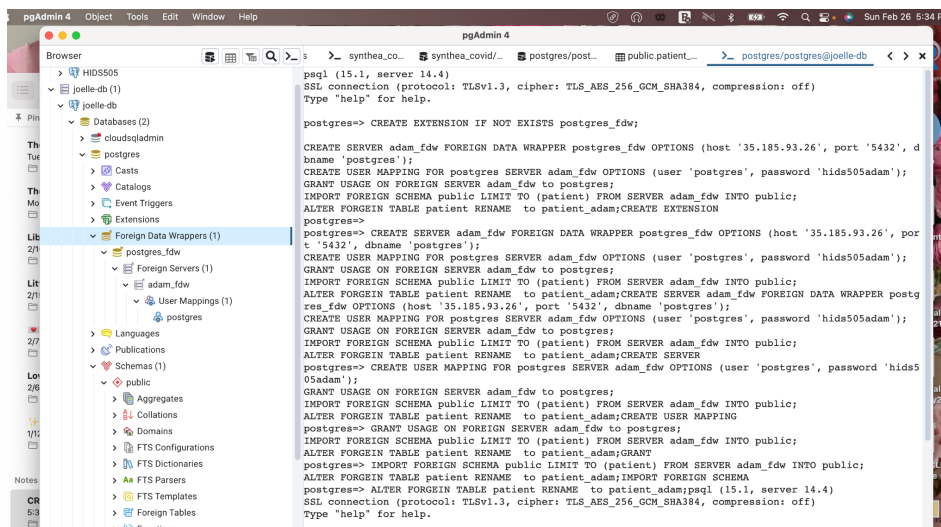GRANT USAGE ON FOREIGN SERVER ansel_fdw to postgres;
IMPORT FOREIGN SCHEMA public LIMIT TO (patient) FROM SERVER ansel_fdw INTO public;
ALTER FORGEIN TABLE patient RENAME to patient_ansel;

Query results: Creation of servers under 'Foreign Data Wrappers'

11. Capture and upload snapshots of the current aggregate result

Demonstrating aggregate results from foreign tables: